

# ABSTRACT

A method is for producing a corrosion-resistant and oxidation-resistant coating, and a component part includes such a coating.

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According to the method, a component part made of a component part material and a slip material are made available, the slip material, besides a binding agent, including at least one metal powder, the metal powder being formed of at least 25  
10 wt.% of at least one metal of the platinum group, and either being formed of jacketed powder cores, the powder cores being formed of at least one metal of the platinum group; and the jacketing of the powder cores being formed of a material based on the same material as the component part material, or being  
15 formed of a metal powder alloy which, besides the at least one metal of the platinum group includes at least one material based on the same material as the material of the component part. The slip material is applied at least from area to area onto the component part while forming a slip layer. The slip  
20 layer is then cured and dried. Subsequently, heat treatment takes place of the component part that is coated with the slip material at least from area to area, in order to diffuse the slip layer into the component part.